

ABSTRACT

[Abstract]

Provided is an electrolysis cell and an electrolyzed water producing equipment which are each small in size, has excellent electrolysis efficiency and can reduce an anion concentration in acidic electrolyzed water. The electrolysis cell is equipped with electrolysis rooms 10a and 10b located opposite to each other via an ion permeable membrane 2, raw water supply units 11a and 11b, electrodes 3a and 3b disposed with the membrane interposed therebetween, and electrolyzed water discharge units 12a and 12b. The membrane 2 is an anion permeable film. The electrodes 3a and 3b are formed so as to firmly adhere to both surfaces of the anion permeable membrane 2 and expose a portion of the anion permeable membrane 2. Only raw water fed to the electrolysis room 10b on the cathode side contains an electrolyte. The electrodes 3a and 3b are porous and they each has an electrode base material made of a powdery titanium compound such as TiC or TiN, a catalyst such as platinum black or iridium black and a binder such as PVA. The electrodes 3a and 3b may be mesh-shaped or comb-shaped. The electrodes 3a and 3b are formed by applying a conductive paste containing conductive powders onto the surfaces of the anion permeable membrane 2, followed by heating or pressurization.